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For: Air Flow Sensor

ABSTRACT OF DISCLOSURE

An air flow sensor including a temperature dependent resistor device, a first circuit
5 and a second circuit. The first circuit applies a voltage to the temperature dependent resistor
device until it reaches a first temperature. The first circuit includes a first reference
resistance leg, a first variable resistance leg including the temperature dependent resistor
device, and a first comparator connected to both legs for determining when the temperature
dependent resistor device reaches the first temperature. The second circuit includes a
10 second reference resistance leg, a second variable resistance leg including the temperature
dependent resistor device, and a second comparator connected to both legs for determining
when the temperature dependent resistor device reaches a second temperature. A processor
is connected to both the first and second comparators and programmed to time the period of
time it takes the temperature dependent resistor device to change from the first temperature
15 to the second temperature to determine the heat loss rate of the temperature dependent
resistor device.